

Attachment 4

Supplemental Type Certificates

United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**

*Number* ST02656NY-D

*This certificate, issued to* Delta Engineering  
13 DRBA Way  
New Castle County Airport  
New Castle, Delaware 19720

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.*

*Original Product — Type Certificate Number:* T00001SE  
*Make:* Boeing  
*Model:* 777-200 Series

*Description of Type Design Change:*

Update of Panasonic Avionics Corporation System 3000i Passenger Entertainment System in accordance with Delta Engineering Master Data List 0143-06635-2204 Revision A dated Jun. 2, 2010 or later FAA approved revisions to Delta Engineering Master Data List previously listed. Instructions for Continued Airworthiness as listed on the Master Data List required for this alteration.

*Limitations and Conditions:*

1. If the holder agrees to permit another person to use the certificate to alter the product, the holder shall give the other person written evidence of that permission.

(See Continuation Sheet 2)

*This certificate and the supporting data which is the basis for approval shall remain in effect surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* August 21, 2009

*Date reissued:*

*Date of issuance:* June 2, 2010

*Date amended:* August 18, 2010



*By direction of the Administrator*

Jonathan E. Moritz  
ODA Administrator  
Delta Engineering, ODA-800728-NE

*(Title)*

United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

*Number* ST02656NY-D

Amendment Date: August 18, 2010

*Limitations and Conditions (continued):*

2. Compatibility of this design change with previously approved modifications must be determined by the installer.
3. The Panasonic System 3000i must interface with the following listed required existing systems/components, which must be installed in a manner acceptable to the FAA Administrator. The below listed required existing systems are not approved by this STC.

Required existing systems/components:

System/Component	Manufacture	Model	Additional Requirements
Cabin Arrangement Monitor Structural/Wiring Provisions	JAMCO	-	LOPA as listed on the Master Data List FAA STC ST01889SE-D

*Certification Basis:*

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for the Boeing 777-200 Series aircraft with this STC is as follows:

- a. The type certification basis for Boeing 777-200 Series airplanes is shown on TCDS T00001SE for parts **not changed or not affected** by the change.
- b. The certification basis for parts **changed or affected** by the change since the reference date of application, Aug. 21, 2009 is based upon part 25 as amended by Amendment 25-122. Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification was determined to be as shown on the TCDS T00001SE except the regulations listed below:
- c. Additionally 14 CFR Part 26 is applicable to this STC
  1. This STC does not require a revised Electrical Wiring Interconnection System (EWIS) Instructions for Continued Airworthiness (ICA).

Section	Title	At Amendment
§25.831	Ventilation	25-89
§25.853	Compartment interiors	25-116
§25.869	Fire protection: systems	25-113
§25.981	Fuel tank temperature	25-102
§25.1353	Electrical equipment and installations	25-113
§25.1423	Public address system	25-115
§25.1431	Electronic equipment	25-113
§26.11	EWIS	26-0
§26.47	Aging Aircraft Safety Rule	26-1

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*Any Alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.*



United States of America  
Department of Transportation - Federal Aviation Administration

# Supplemental Type Certificate

*Number* ST01889SE-D

*This certificate, issued to*

Jamco America, Inc.  
1018 80<sup>th</sup> Street SW  
Everett, WA 98203

*certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations*

*Original Product—Type Certificate Number*

T00001SE

*Make:*

The Boeing Company

*Model:*

777-200 Series

*Description of the Type Design Change:* Installation of an interior reconfiguration on Boeing Model 777-200 series aircraft in accordance with Jamco America, Inc., Master Drawing List (MDL) MDL1364-1, Rev. A, dated June 3, 2010, or later Federal Aviation Administration (FAA) approved revision.

*Limitations and Conditions:* Approval of this change in type design is applicable to the above model aircraft only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and of those other previously approved modifications will introduce no adverse effect upon the airworthiness of the aircraft. See continuation sheet 3 of 3 for additional limitations. A copy of this certificate and Jamco America, Inc. MDL1364-1 must be maintained as part of the permanent records of the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration*

*Date of application:* September 28, 2009

*Date reissued:*

*Date of issuance:* June 3, 2010

*Date amended:* August 25, 2010



*By direction of the Administrator*

(Signature)

ODA Administrator, Jamco America, Inc.

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

United States of America  
Department of Transportation - Federal Aviation Administration  
**Supplemental Type Certificate**  
**(Continuation Sheet)**  
*Number* ST01889SE-D

**Limitations and Conditions Continued:**

Instructions for Continued Airworthiness (ICA), document number ICA1364-1, Rev. E, dated July 8, 2010, or later FAA approved revision, must be made available to the operator at the time of installation.

Delta Engineering STC ST02656NY-D, installation of an in-flight entertainment system, must be installed concurrently with this modification.

**Certification Basis:**

Based on 14 CFR §§ 21.115 and 21.101, and the FAA policy for significant changes in FAA Order 8110.48, the certification basis for this modification is based upon Part 25 as specified in TCDS T00001SE. Regulations at a later amendment level than specified in TCDS T00001SE are listed below:

§ 25.1353(a)(b)(d)	Amdt. 25-113
§ 25.1431(a)(c)(d)	Amdt. 25-113
§ 25.1447(a)(c)(1)(4)	Amdt. 25-116
§ 26.11(c)(1)(2)(d)(5)	Amdt. 26-0

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*Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.*

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